

**CRF Errors Corrected by the STIC Systems Branch**

Serial Number: 09/852,612A

**ENTERED**

CRF Processing Date: 6/20/2002  
 Edited by: me  
 Verified by: me (STIC staff)

*Per 109 WA*  
*#10*

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_.
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☒ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_.
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



PCT09

## RAW SEQUENCE LISTING

DATE: 06/20/2002

PATENT APPLICATION: US/09/857,612A

TIME: 20:36:23

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\06202002\I857612A.raw

P.6

3 <110> APPLICANT: E. I. du Pont de Nemours and Company  
 5 <120> TITLE OF INVENTION: Plant Lecithin:Cholesterol Acyltransferases  
 7 <130> FILE REFERENCE: BB1262  
 9 <140> CURRENT APPLICATION NUMBER: US/09/857,612A  
 C--> 10 <141> CURRENT FILING DATE: 2001-10-18  
 12 <150> PRIOR APPLICATION NUMBER: 60/110,782  
 13 <151> PRIOR FILING DATE: 1998-12-03  
 15 <160> NUMBER OF SEQ ID NOS: 15  
 17 <170> SOFTWARE: Microsoft Office 97  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 542  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Zea mays  
 24 <220> FEATURE:  
 25 <221> NAME/KEY: unsure  
 26 <222> LOCATION: (433) /  
 27 <223> OTHER INFORMATION: n=A, C, G, or T  
 29 <220> FEATURE:  
 30 <221> NAME/KEY: unsure /  
 31 <222> LOCATION: (445)  
 32 <223> OTHER INFORMATION: n=A, C, G, or T  
 34 <220> FEATURE:  
 35 <221> NAME/KEY: unsure /  
 36 <222> LOCATION: (472)  
 37 <223> OTHER INFORMATION: n=A, C, G, or T  
 39 <220> FEATURE:  
 40 <221> NAME/KEY: unsure /  
 41 <222> LOCATION: (482)  
 42 <223> OTHER INFORMATION: n=A, C, G, or T  
 44 <220> FEATURE: /  
 45 <221> NAME/KEY: unsure  
 46 <222> LOCATION: (495)  
 47 <223> OTHER INFORMATION: n=A, C, G, or T  
 49 <220> FEATURE: /  
 50 <221> NAME/KEY: unsure  
 51 <222> LOCATION: (508)  
 52 <223> OTHER INFORMATION: n=A, C, G, or T  
 54 <220> FEATURE:  
 55 <221> NAME/KEY: unsure /  
 56 <222> LOCATION: (513)  
 57 <223> OTHER INFORMATION: n=A, C, G, or T  
 59 <220> FEATURE:  
 60 <221> NAME/KEY: unsure

## RAW SEQUENCE LISTING

DATE: 06/20/2002

PATENT APPLICATION: US/09/857,612A

TIME: 20:36:23

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\06202002\I857612A.raw

61 &lt;222&gt; LOCATION: (535)

62 &lt;223&gt; OTHER INFORMATION: n=A, C, G, or T

64 &lt;400&gt; SEQUENCE: 1

65 gtggcgacaca gctacggcgg cagcgtggcg caccagtacc tactgcggcg gcccttgccg 60  
 66 tggcgagggc gcttcgtccg gcggttcgtg cccgttgccg caccgtgggg aggcgtcgtc 120  
 67 cttggcatgc tgacaatcgt cgccggcaac aatctcggcc tgccgttcgt cgaccccgctg 180  
 68 gcgctcaagg gcgagtaccg gagcctgcag agcagcctct ggccgctgcc caaccccaac 240  
 69 gcatttagag ccgggcagcc actggtgacc acacggagca ggacgtacac ggcccaacgac 300  
 70 atggcggact tcctcgacgc catcgggcta ggcgcggcaa ttgtgcccga ccagtcccgc 360  
 71 gtgctgcccc tgttcgggga gctgccatct ccgcgggtgc ccgtggcttg tgtccgtccg 420  
 72 gggttgggct ggnacggccg ggaanatgct ggcctaacct gggaagacga anttcgacgt 480  
 73 gnacgcccac tgatnggcaa tgggggaanac gngaacggg ctgggtcaaa cctgntgaac 540  
 74 ct 542

76 &lt;210&gt; SEQ ID NO: 2

77 &lt;211&gt; LENGTH: 143

78 &lt;212&gt; TYPE: PRT

79 &lt;213&gt; ORGANISM: Zea mays

81 &lt;400&gt; SEQUENCE: 2

82 Val Ala His Ser Tyr Gly Gly Thr Leu Ala His Gln Phe Leu Leu Arg  
 83 1 5 10 15  
 85 Arg Pro Leu Pro Trp Arg Arg Arg Phe Val Arg Arg Phe Val Pro Val  
 86 20 25 30  
 88 Ala Ala Pro Trp Gly Gly Val Val Leu Gly Met Leu Thr Ile Val Ala  
 89 35 40 45  
 91 Gly Asn Asn Leu Gly Leu Pro Phe Val Asp Pro Leu Ala Leu Lys Gly  
 92 50 55 60  
 94 Glu Tyr Arg Ser Leu Gln Ser Ser Leu Trp Pro Leu Pro Asn Pro Asn  
 95 65 70 75 80  
 97 Ala Phe Arg Ala Gly Gln Pro Leu Val Thr Thr Arg Ser Arg Thr Tyr  
 98 85 90 95  
 100 Thr Ala His Asp Met Ala Asp Phe Leu Asp Ala Ile Gly Leu Gly Ala  
 101 100 105 110  
 103 Ala Ile Val Pro Tyr Gln Ser Arg Val Leu Pro Leu Phe Arg Glu Leu  
 104 115 120 125  
 106 Pro Ser Pro Arg Val Pro Val Ala Cys Val Arg Pro Gly Leu Gly  
 107 130 135 140

109 &lt;210&gt; SEQ ID NO: 3

110 &lt;211&gt; LENGTH: 921

111 &lt;212&gt; TYPE: DNA

112 &lt;213&gt; ORGANISM: Zea mays

114 &lt;220&gt; FEATURE:

115 &lt;221&gt; NAME/KEY: unsure

116 &lt;222&gt; LOCATION: (884)

117 &lt;223&gt; OTHER INFORMATION: n=A, C, G, or T

119 &lt;400&gt; SEQUENCE: 3

120 cgcagtagaa gatcgagtga gaagttgcgc gtgtgaagcc atcacaccaa ttaaagatcg 60  
 121 agatcatcca tggctagttc tctacttcag cagctgctgt ctctgctgct gctcctgctg 120  
 122 ccctctctc ttcgtctccg ggagcatcta tcaggaaacc atgctgtcag cgccaacaac 180  
 123 ttccacccca tctttctggt agctggggtg agctgcagcg acctggaggc acgcctcacc 240

## RAW SEQUENCE LISTING

DATE: 06/20/2002

PATENT APPLICATION: US/09/857,612A

TIME: 20:36:23

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\06202002\I857612A.raw

124 gaggagtacc ggccgtcggg gccgcactgc ggcgccatga aggggaaggg gtggttcggg 300  
 125 ctgtggaaga acagttcggg gctgctgtct cgtgactacg tgcagtgtt cgaggagcag 360  
 126 atgagcctcg tctacgaccc tgccatcaac gagtaccgga acctcgccgg cgtcgagacg 420  
 127 cgagtgccca acttcggctc cacaagagcc ttcagccaca agaaccctt caagtcagac 480  
 128 tgggtgcctcg gaaagctgag agccgcactg gaagacatgg gataccgaga cggagacacc 540  
 129 atgttcggag cccctacga cttccgtac gcgccgccgt ccccgccga gacgtccgag 600  
 130 gtgtactccc gctacttcaa ggagctgatg gagctggtcg aggccgcgag cgagaggacc 660  
 131 cggaagaagg ccgtcatcct cggccacagc ttcggcggca tggtcgcgct cgagttcgtc 720  
 132 cggaacactc cgccggcgtg gcggcgcgag cacatcgagc gcctcgtcct ggtcgcgccg 780  
 133 acgctccccg gcgggttctt ggagccggtg cgcaacttcg cgtccgggac ggacatcctc 840  
 134 *WJL* tacgtgccag cgacgacgcc gctggccacg cgagccatgt tgangagctt cgagaacgcc 900  
 135 atcgtgaatt cccgtcgccg g 921  
 137 <210> SEQ ID NO: 4  
 138 <211> LENGTH: 233  
 139 <212> TYPE: PRT  
 140 <213> ORGANISM: Zea mays  
 142 <400> SEQUENCE: 4  
 143 Met Ala Ser Ser Leu Leu Gln Gln Leu Leu Ser Leu Leu Leu Leu Leu  
 144 1 5 10 15  
 146 Leu Pro Ser Pro Leu Arg Leu Arg Glu His Leu Ser Gly Asn His Ala  
 147 20 25 30  
 149 Val Ser Ala Asn Asn Phe His Pro Ile Phe Leu Val Ala Gly Val Ser  
 150 35 40 45  
 152 Cys Ser Asp Leu Glu Ala Arg Leu Thr Glu Glu Tyr Arg Pro Ser Val  
 153 50 55 60  
 155 Pro His Cys Gly Ala Met Lys Gly Lys Gly Trp Phe Gly Leu Trp Lys  
 156 65 70 75 80  
 158 Asn Ser Ser Glu Leu Ser Arg Asp Tyr Val Gln Cys Phe Glu Glu  
 159 85 90 95  
 161 Gln Met Ser Leu Val Tyr Asp Pro Ala Ile Asn Glu Tyr Arg Asn Leu  
 162 100 105 110  
 164 Ala Gly Val Glu Thr Arg Val Pro Asn Phe Gly Ser Thr Arg Ala Phe  
 165 115 120 125  
 167 Ser His Lys Asn Pro Leu Lys Ser Asp Trp Cys Leu Gly Lys Leu Arg  
 168 130 135 140  
 170 Ala Ala Leu Glu Asp Met Gly Tyr Arg Asp Gly Asp Thr Met Phe Gly  
 171 145 150 155 160  
 173 Ala Pro Tyr Asp Phe Arg Tyr Ala Pro Pro Ser Pro Gly Gln Thr Ser  
 174 165 170 175  
 176 Glu Val Tyr Ser Arg Tyr Phe Lys Glu Leu Met Glu Leu Val Glu Ala  
 177 180 185 190  
 179 Ala Ser Glu Arg Thr Arg Lys Lys Ala Val Ile Leu Gly His Ser Phe  
 180 195 200 205  
 182 Gly Gly Met Val Ala Leu Glu Phe Val Arg Asn Thr Pro Pro Ala Trp  
 183 210 215 220  
 185 Arg Arg Glu His Ile Glu Arg Leu Val  
 186 225 230  
 188 <210> SEQ ID NO: 5  
 189 <211> LENGTH: 1217

## RAW SEQUENCE LISTING

DATE: 06/20/2002

PATENT APPLICATION: US/09/857,612A

TIME: 20:36:23

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\06202002\I857612A.raw

190 &lt;212&gt; TYPE: DNA

191 &lt;213&gt; ORGANISM: Glycine max

193 &lt;400&gt; SEQUENCE: 5

```

194 ctttcatctg cgaatcatgg taccctctca tcaagaaaaa gaatggatgg ttcagacttt 60
195 ggtttgattc cagtgtcata cttgtcctt tcaactaatg ctttgccgaa cgcattgaccc 120
196 ttcattacca ccaagaactc gatgattact tcaacactcc tgggggttgag acccggtgcc 180
197 ctcaactttg ttccaccaac tctcttctct atctcaatcc tcgtctcaag catatcaccg 240
198 gatacatggc acccctggta gattcattac aaaagcttgg ctacgctgat ggtgagactc 300
199 tgtttgagc cccttatgac tttagatag gtctagctgc tgaagggtcac ccttcacaag 360
200 tgggttccaa gtctctcaa gatctaaaga atttgataga agaagcaagc aattccaata 420
201 atgggaagcc agtgatactt ctctccaca gtttaggagg cctatttgtc ctacaactac 480
202 taaatagaaa cccccctct tggcgcaaaa aattcatcaa acacttcatt gctctttcag 540
203 ctccatgggg tggtgctata gacgaaatgt acacctttgc atctggcaac actttgggag 600
204 tgcccctagt ggacccttta ttagtgaggg atgaacaaaag aagctccgag agtaaccttt 660
205 ggcttttgcc taacccaaaa atttttggtc ctcaaaaacc aatagtata actccaatta 720
206 ggccttattc agctcatgac atggttgatt ttctaaaaga cattggtttt cctgaagggg 780
207 tttatcctta tgaacacga attctaccct tgatagggaa cataaaagca ccacaagtgc 840
208 ctataacttg tattatggga acgggagtg gaaccttga aacattgtt tatgggaaag 900
209 gtgattttga tgaacggcca gaaatatcat atggggatgg tgatggaacg gtgaacttgg 960
210 tgagcttgtt ggcgcttcaa tcactatgga aagaggagaa aaatcaatac cttaaagtgg 1020
211 ttaagataga tggggtgtct catacttcaa tacttaagga tgaagttgca ctaaataaaa 1080
212 tagtaggtga gattacttca attaatctc atgctgagct cggtttaagt aatttgtttt 1140
213 cggggtaaat gatcaggggtg tttgaacgac aattatagat tcgttgtctg caaattaaat 1200
214 tttgtgtggg gagttga 1217

```

216 &lt;210&gt; SEQ ID NO: 6

217 &lt;211&gt; LENGTH: 381

218 &lt;212&gt; TYPE: PRT

219 &lt;213&gt; ORGANISM: Glycine max

221 &lt;400&gt; SEQUENCE: 6

```

222 Phe Ile Cys Glu Ser Trp Tyr Pro Leu Ile Lys Lys Lys Asn Gly Trp
223   1           5           10           15
225 Phe Arg Leu Trp Phe Asp Ser Ser Val Ile Leu Ala Pro Phe Thr Gln
226           20           25           30
228 Cys Phe Ala Glu Arg Met Thr Leu His Tyr His Gln Glu Leu Asp Asp
229           35           40           45
231 Tyr Phe Asn Thr Pro Gly Val Glu Thr Arg Val Pro His Phe Gly Ser
232           50           55           60
234 Thr Asn Ser Leu Leu Tyr Leu Asn Pro Arg Leu Lys His Ile Thr Gly
235           65           70           75           80
237 Tyr Met Ala Pro Leu Val Asp Ser Leu Gln Lys Leu Gly Tyr Ala Asp
238           85           90           95
240 Gly Glu Thr Leu Phe Gly Ala Pro Tyr Asp Phe Arg Tyr Gly Leu Ala
241           100          105          110
243 Ala Glu Gly His Pro Ser Gln Val Gly Ser Lys Phe Leu Lys Asp Leu
244           115          120          125
246 Lys Asn Leu Ile Glu Glu Ala Ser Asn Ser Asn Asn Gly Lys Pro Val
247           130          135          140
249 Ile Leu Leu Ser His Ser Leu Gly Gly Leu Phe Val Leu Gln Leu Leu
250 145          150          155          160

```

## RAW SEQUENCE LISTING

DATE: 06/20/2002

PATENT APPLICATION: US/09/857,612A

TIME: 20:36:23

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\06202002\I857612A.raw

252 Asn Arg Asn Pro Pro Ser Trp Arg Lys Lys Phe Ile Lys His Phe Ile  
 253 165 170 175  
 255 Ala Leu Ser Ala Pro Trp Gly Gly Ala Ile Asp Glu Met Tyr Thr Phe  
 256 180 185 190  
 258 Ala Ser Gly Asn Thr Leu Gly Val Pro Leu Val Asp Pro Leu Leu Val  
 259 195 200 205  
 261 Arg Asp Glu Gln Arg Ser Ser Glu Ser Asn Leu Trp Leu Leu Pro Asn  
 262 210 215 220  
 264 Pro Lys Ile Phe Gly Pro Gln Lys Pro Ile Val Ile Thr Pro Ile Arg  
 265 225 230 235 240  
 267 Pro Tyr Ser Ala His Asp Met Val Asp Phe Leu Lys Asp Ile Gly Phe  
 268 245 250 255  
 270 Pro Glu Gly Val Tyr Pro Tyr Glu Thr Arg Ile Leu Pro Leu Ile Gly  
 271 260 265 270  
 273 Asn Ile Lys Ala Pro Gln Val Pro Ile Thr Cys Ile Met Gly Thr Gly  
 274 275 280 285  
 276 Val Gly Thr Leu Glu Thr Leu Phe Tyr Gly Lys Gly Asp Phe Asp Glu  
 277 290 295 300  
 279 Arg Pro Glu Ile Ser Tyr Gly Asp Gly Asp Gly Thr Val Asn Leu Val  
 280 305 310 315 320  
 282 Ser Leu Leu Ala Leu Gln Ser Leu Trp Lys Glu Glu Lys Asn Gln Tyr  
 283 325 330 335  
 285 Leu Lys Val Val Lys Ile Asp Gly Val Ser His Thr Ser Ile Leu Lys  
 286 340 345 350  
 288 Asp Glu Val Ala Leu Asn Glu Ile Val Gly Glu Ile Thr Ser Ile Asn  
 289 355 360 365  
 291 Ser His Ala Glu Leu Gly Leu Ser Asn Leu Phe Ser Gly  
 292 370 375 380

294 &lt;210&gt; SEQ ID NO: 7

295 &lt;211&gt; LENGTH: 1440

296 &lt;212&gt; TYPE: DNA

297 &lt;213&gt; ORGANISM: Zea mays

299 &lt;400&gt; SEQUENCE: 7

300 gcacgagccg acaacatcat ggcgaggatt cccaggttc tggcgccgct cctcctcctg 60  
 301 ctgctccccg ccggtctccg ggagctgatg atcgaccgcc ggcccctgcc gaagcgctgc 120  
 302 cggcgcgagg tctcctcca cccgctggtg ctggtgcccg ggctgacgtg cagcgagctg 180  
 303 gacgcgcggc tcacggacgc ctaccgcccc ttccgcgccg cgtgcgatga aggggaaggg 240  
 304 ctggttcggc tctggaccaa ctgctccgac ctgcccgcgc accactacgt gcggtgcttc 300  
 305 atggagcaga tggccctcgt ctacgacccc gtcgcgaacg actaccggaa cctgcccggc 360  
 306 gtcgagacgc gcgtgcgcaa ttctggctcc tcccgaggat tccagaagaa cccggagcac 420  
 307 acgacctggt cctggtgctt cgaggctctc agaaacgagc tggcaagggc cgggtaccgc 480  
 308 gacggcgaca ccctgttcgg ggccccgtac gacctccgct acgccccgcc ggtgcccggc 540  
 309 cagccatcga ggtcttctcc ggctacttcc gtcggttggc cgagcctcgt cgaggacgcg 600  
 310 agccgcaaga accggggcag gaaggtgatc ctcttcgggc acagcttcgg gggcatggtg 660  
 311 gcgctggagt tcgtccggag cactcccatg gcgtggcgag acaggtacat caagcacctc 720  
 312 ttctctgctg ccccggtgcc ggcggaaggg ttctgaagc cgctgcagta ctctgtctcc 780  
 313 ggggtccaacc tgatgtacgt cccgacagtc agctcgctcg agcctgcctt taggcgatg 840  
 314 tggcggacct tcgagtctc cctcgtcaac ttccccctcc cagcggtgtt cgggcgcagg 900  
 315 ccgctcgtgg tcaccgcgcg gaggaactac tccgcctacg acctggagga cctcctcgtc 960

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 06/20/2002  
PATENT APPLICATION: US/09/857,612A      TIME: 20:36:24

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\06202002\I857612A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 433,445,472,482,495,508,513,535  
Seq#:3; N Pos. 884  
Seq#:9; N Pos. 536



PCT09

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/857,612A

DATE: 06/06/2002

TIME: 14:59:39

Input Set : A:\BB1262sequence listing.txt

Output Set : N:\CRF3\06062002\I857612A.raw

Does Not Comply  
Corrected Diskette Needed

3 <110> APPLICANT: E. I. du Pont de Nemours and Company  
 5 <120> TITLE OF INVENTION: Plant Lecithin:Cholesterol Acyltransferases  
 7 <130> FILE REFERENCE: BB1262  
 9 <140> CURRENT APPLICATION NUMBER: US/09/857,612A  
 C--> 10 <141> CURRENT FILING DATE: 2001-10-18  
 12 <150> PRIOR APPLICATION NUMBER: 60/110,782  
 13 <151> PRIOR FILING DATE: 1998-12-03  
 15 <160> NUMBER OF SEQ ID NOS: 15  
 17 <170> SOFTWARE: Microsoft Office 97

## ERRORED SEQUENCES

784 <210> SEQ ID NO: 15  
 785 <211> LENGTH: 432  
 786 <212> TYPE: PRT  
 787 <213> ORGANISM: Arabidopsis thaliana  
 789 <400> SEQUENCE: 15  
 790 Met Lys Lys Ile Ser Ser His Tyr Ser Val Val Ile Ala Ile Leu Val  
 791 1 5 10 15  
 793 Val Val Thr Met Thr Ser Met Cys Gln Ala Val Gly Ser Asn Val Tyr  
 794 20 25 30  
 796 Pro Leu Ile Leu Val Pro Gly Asn Gly Gly Asn Gln Leu Glu Val Arg  
 797 35 40 45  
 799 Leu Asp Arg Glu Tyr Lys Pro Ser Ser Val Trp Cys Ser Ser Trp Leu  
 800 50 55 60  
 802 Tyr Pro Ile His Lys Lys Ser Gly Gly Trp Phe Arg Leu Trp Phe Asp  
 803 65 70 75 80  
 805 Ala Ala Val Leu Leu Ser Pro Phe Thr Arg Cys Phe Ser Asp Arg Met  
 806 85 90 95  
 808 Met Leu Tyr Tyr Asp Pro Asp Leu Asp Asp Tyr Gln Asn Ala Pro Gly  
 809 100 105 110  
 811 Val Gln Thr Arg Val Pro His Phe Gly Ser Thr Lys Ser Leu Leu Tyr  
 812 115 120 125  
 814 Leu Asp Pro Arg Leu Arg Asp Ala Thr Ser Tyr Met Glu His Leu Val  
 815 130 135 140  
 817 Lys Ala Leu Glu Lys Lys Cys Gly Tyr Val Asn Asp Gln Thr Ile Leu  
 818 145 150 155 160  
 820 Gly Ala Pro Tyr Asp Phe Arg Tyr Gly Leu Ala Ala Ser Gly His Pro  
 821 165 170 175  
 823 Ser Arg Val Ala Ser Gln Phe Leu Gln Asp Leu Lys Gln Leu Val Glu  
 824 180 185 190  
 826 Lys Thr Ser Ser Glu Asn Glu Gly Lys Pro Val Ile Leu Leu Ser His



## RAW SEQUENCE LISTING

DATE: 06/06/2002

PATENT APPLICATION: US/09/857,612A

TIME: 14:59:39

Input Set : A:\BB1262sequence listing.txt

Output Set: N:\CRF3\06062002\I857612A.raw

|   |     |     |     |
|---|-----|-----|-----|
| 827   | 195 | 200 | 205 |
| 829 Ser Leu Gly Gly Leu Phe Val Leu His Phe Leu Asn Arg Thr Thr Pro |     |     |     |
| 830 210   | 215 | 220 |     |
| 832 Ser Trp Arg Arg Lys Tyr Ile Lys His Phe Val Ala Leu Ala Ala Pro |     |     |     |
| 833 225   | 230 | 235 | 240 |
| 835 Trp Gly Gly Thr Ile Ser Gln Met Lys Thr Phe Ala Ser Gly Asn Thr |     |     |     |
| 836 245   | 250 | 255 |     |
| 838 Leu Gly Val Pro Leu Val Asn Pro Leu Leu Val Arg Arg His Gln Arg |     |     |     |
| 839 260   | 265 | 270 |     |
| 841 Thr Ser Glu Ser Asn Gln Trp Leu Leu Pro Ser Thr Lys Val Phe His |     |     |     |
| 842 275   | 280 | 285 |     |
| 844 Asp Arg Thr Lys Pro Leu Val Val Thr Pro Gln Val Asn Tyr Thr Ala |     |     |     |
| 845 290   | 295 | 300 |     |
| 847 Tyr Glu Met Asp Arg Phe Phe Ala Asp Ile Gly Phe Ser Gln Gly Val |     |     |     |
| 848 305   | 310 | 315 | 320 |
| 850 Val Pro Tyr Lys Thr Arg Val Leu Pro Leu Thr Glu Glu Leu Met Thr |     |     |     |
| 851 325   | 330 | 335 |     |
| 853 Pro Gly Val Pro Val Thr Cys Ile Tyr Gly Arg Gly Val Asp Thr Pro |     |     |     |
| 854 340   | 345 | 350 |     |
| 856 Glu Val Leu Met Tyr Gly Lys Gly Gly Phe Asp Lys Gln Pro Glu Ile |     |     |     |
| 857 355   | 360 | 365 |     |
| 859 Lys Tyr Gly Asp Gly Asp Gly Thr Val Asn Leu Ala Ser Leu Ala Ala |     |     |     |
| 860 370   | 375 | 380 |     |
| 862 Leu Lys Val Asp Ser Leu Asn Thr Val Glu Ile Asp Gly Val Ser His |     |     |     |
| 863 385   | 390 | 395 | 400 |
| 865 Thr Ser Ile Leu Lys Asp Glu Ile Ala Leu Lys Glu Ile Met Lys Gln |     |     |     |
| 866 405   | 410 | 415 |     |
| 868 Ile Ser Ile Ile Asn Tyr Glu Leu Ala Asn Val Asn Ala Val Asn Glu |     |     |     |
| 869 420   | 425 | 430 |     |

E--&gt; 872 15

## VERIFICATION SUMMARY

DATE: 06/06/2002

PATENT APPLICATION: US/09/857,612A

TIME: 14:59:40

Input Set : A:\BB1262sequence listing.txt

Output Set: N:\CRF3\06062002\I857612A.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:420  
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:480  
L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:840  
L:434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:480  
L:872 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:15